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- NEWS 14 DEC 30 EPFULL: New patent full text database to be available on STN
- NEWS 15 DEC 30 CAPLUS - PATENT COVERAGE EXPANDED
- NEWS 16 JAN 03 No connect-hour charges in EPFULL during January and February 2005
- NEWS EXPRESS OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

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FILE LAST UPDATED: 5 Jan 2005 (20050105/ED)

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STRUCTURE FILE UPDATES: 5 JAN 2005 HIGHEST RN 808732-83-4  
DICTIONARY FILE UPDATES: 5 JAN 2005 HIGHEST RN 808732-83-4

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

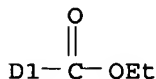
=> s ethyl tetrabromobenzoate/cn  
L1 1 ETHYL TETRABROMOBENZOATE/CN

=> d

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 51251-94-6 REGISTRY  
CN Benzoic acid, tetrabromo-, ethyl ester (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN Ethyl tetrabromobenzoate  
MF C9 H6 Br4 O2  
CI IDS  
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB  
DT.CA CAplus document type: Patent  
RL.P Roles from patents: USES (Uses)



4 ( D1- Br )



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
6.87	7.53

FULL ESTIMATED COST

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FILE LAST UPDATED: 5 Jan 2005 (20050105/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 51251-94-6/prep  
1 51251-94-6  
3242962 PREP/RL  
L2 0 51251-94-6/PREP  
(51251-94-6 (L) PREP/RL)

=> s 51251-94-6/proc  
1 51251-94-6  
3606782 PROC/RL  
L3 0 51251-94-6/PROC  
(51251-94-6 (L) PROC/RL)

=> s 51251-94-6/pur  
1 51251-94-6  
204429 PUR/RL  
L4 0 51251-94-6/PUR  
(51251-94-6 (L) PUR/RL)

=> s methyl tetrabromobenzoate/cn

**REGISTRY INITIATED**

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L6 0 L5

=> s methyl tetrabromobenzoate  
916213 METHYL

L7 7 TETRABROMOBENZOATE  
0 METHYL TETRABROMOBENZOATE  
(METHYL(W) TETRABROMOBENZOATE)

=> s tetrabromobenzoate  
L8 7 TETRABROMOBENZOATE

=> s l8 and py<2003  
22587187 PY<2003  
L9 7 L8 AND PY<2003

=> d 7 ibib abs hitstr

L9 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1920:19517 CAPLUS

DOCUMENT NUMBER: 14:19517

ORIGINAL REFERENCE NO.: 14:3652g-i,3653a

TITLE: Alcoholysis. III. The alcoholysis of aromatic esters  
and the inhibiting influence of ortho-substituents

AUTHOR(S): Sudborough, J. J.; Karve, D. D.

SOURCE: Journal of the Indian Institute of Science (1919), 3, 1-14

CODEN: JIISAD; ISSN: 0019-4964

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB The results obtained with a large number of esters of aromatic acids indicate quite clearly that Na alkyl oxides or HCl are excellent catalysts for the alcoholysis of these esters. An ethyl ester may readily be converted into the corresponding methyl ester by dissolving it in no times its weight of MeOH, adding a small piece of Na, and warming for 10 min. Two substituents in 0-positions to the ester group completely inhibit the change. The following new esters have been prepared and characterized. Ethyl 3,5-dibromobenzoate, m. 51°, is obtained by eliminating the amino group from ethyl 3,5-dibromo-4-aminobenzoate, m. 108°, which is prepared by brominating P-NH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>Et in dilute H<sub>2</sub>SO<sub>4</sub> solution Methyl 3,5-dibromo-4-aminobenzoate m. 127-128°; ethyl 2,4,6-tribromobenzoate, m. 80°. Ethyl 2,4,6-tribromo-3-aminobenzoate, m. 61-2°, was prepared from the Hg salt of the acid and Etl. Methyl 2,4,6-tribromo-3-aminobenzoate, m. 96-7°. Ethyl 2,3,4,6-tetrabromobenzoate m. 31°; isobutyl p-nitrobenzoate m. 64-65°; propyl 3,5-dinitrobenzoate m. 71°; isobutyl 3,5-dinitrobenzoate m. 85°; ethyl 2,6-dinitrobenzoate m. 75.5°.

=> d 1-6 ibib abs hitstr

L9 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:738047 CAPLUS

DOCUMENT NUMBER: 126:18650

TITLE: One-pot synthesis of ring-brominated benzoate compound by reacting tetrabromophthalic anhydrides with appropriate alcohols using decarboxylation catalysts

INVENTOR(S): Hill, John E.; Favstritsky, Nicolai A.; Mamuzic, Rastko I.; Bhattacharya, Bhabatosh

PATENT ASSIGNEE(S): Great Lakes Chemical Corporation, USA

SOURCE: PCT Int. Appl., 23 pp.

CODEN: PIXXD2

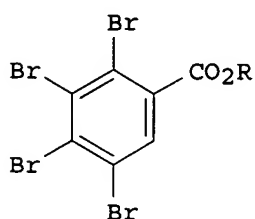
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9632368	A1	19961017	WO 1996-US5031	19960409 <--
W: BR, CA				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5637757	A	19970610	US 1995-420125	19950411 <--
IL 117488	A1	19991028	IL 1996-117488	19960314 <--
CA 2217760	AA	19961017	CA 1996-2217760	19960409 <--
EP 825974	A1	19980304	EP 1996-909913	19960409 <--

R: BE, DE, GB, IT, NL

PRIORITY APPLN. INFO.: US 1995-420125 A 19950411  
WO 1996-US5031 W 19960409

OTHER SOURCE(S): CASREACT 126:18650; MARPAT 126:18650  
GI



AB The title compds. (I; R = an organic group having up to about 30 carbon atoms) are prepared by reaction of tetrabromophthalic anhydride with alcs. in an inert solvent in the presence of a decarboxylation catalyst such as an alkali carbonate, bicarbonate, or a caustic alkali. I are synthesized in high yield economically and efficiently. Thus, tetrabromophthalic anhydride was refluxed with 2-ethylhexanol over NaHCO<sub>3</sub> to give 76.1% I (R = 2-ethylhexyl).

L9 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:728985 CAPLUS  
DOCUMENT NUMBER: 125:330560  
TITLE: Bromobenzoates as flame retardants and/or plasticizers  
INVENTOR(S): Rose, Richard S.; Bhattacharya, Bhabatosh;  
Favstritsky, Nicolai A.  
PATENT ASSIGNEE(S): Great Lakes Chemical Corporation, USA  
SOURCE: PCT Int. Appl., 36 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9632438	A1	19961017	WO 1996-US4976	19960410 <--
W: BR, CA				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5728760	A	19980317	US 1995-419814	19950411 <--
IL 117487	A1	20000217	IL 1996-117487	19960314 <--
CA 2217815	AA	19961017	CA 1996-2217815	19960410 <--
EP 832153	A1	19980401	EP 1996-912674	19960410 <--
EP 832153	B1	20030702		

R: BE, DE, GB, IT, NL

PRIORITY APPLN. INFO.: US 1995-419814 A 19950411  
WO 1996-US4976 W 19960410

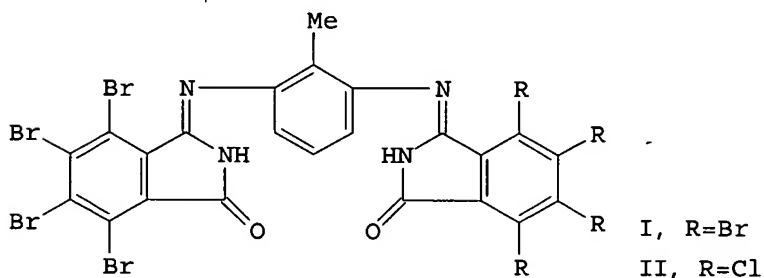
OTHER SOURCE(S): MARPAT 125:330560

AB The fire resistance is improved by incorporating bromobenzoates during the

manufacture of polyurethanes, PVC, unsatd. polyesters, and epoxy resins. These bromobenzoates are also useful as plasticizers for PVC and rubber. A typical polyurethane foam was manufactured using a composition containing glycerol-based heteropolyol 100, 2-ethylhexyl tetrabromobenzoate 18, water 4.5, amine catalyst 0.33, surfactant 0.9, stannous octoate 0.25, and TDI 51.2 parts.

L9 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1984:23562 CAPLUS  
 DOCUMENT NUMBER: 100:23562  
 TITLE: Isoindolinone pigments  
 PATENT ASSIGNEE(S): Nippon Kayaku Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58118856	A2	19830715	JP 1982-980	19820108 <--
PRIORITY APPLN. INFO.: GI			JP 1982-980	19820108



AB Isoindolinones I [82457-14-5] and II [82457-15-6] coloring polyethylene [9002-88-4] yellow without causing any shrinkage anomaly were prepared. Thus, Me 2-cyano-3,4,5,6-tetrabromobenzoate [34643-37-3] was treated with NaOMe in o-C6H4Cl2 to give a solution of 1,1-dimethoxy-4,5,6,7-tetrabromoisindolin-3-one Na salt [88318-63-2], which was then treated with AcOH to give a solution of 1,1-dimethoxy-4,5,6,7-tetrabromoisindolin-3-one [88318-64-3]. The above solution was treated with 2,6-diaminotoluene [823-40-5] at 100° for 60 min and then at 140-50° for 120 min to give greenish yellow I.

L9 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1976:143063 CAPLUS  
 DOCUMENT NUMBER: 84:143063  
 TITLE: Electrophotographic coating compositions having bromine-containing polymer binders  
 INVENTOR(S): Ray-Chaudhuri, Dilip K.; Georgoudis, Paul C.; Stockmann, Hans H.  
 PATENT ASSIGNEE(S): National Starch and Chemical Corp., USA  
 SOURCE: U.S., 11 pp. Division of U.S. 3,793,293.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 3  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3932181	A	19760113	US 1974-484758	19740701 <--
US 3793293	A	19740219	US 1971-169075	19710804 <--
GB 1402139	A	19750806	GB 1972-34742	19720725 <--

GB 1402515	A	19750813	GB 1974-3138	19720725 <--
GB 1402841	A	19750813	GB 1974-3139	19720725 <--
GB 1402842	A	19750813	GB 1974-52477	19720725 <--
FR 2148318	A1	19730316	FR 1972-29003	19720728 <--
CA 999009	A1	19761026	CA 1972-148229	19720728 <--
NL 7210613	A	19730206	NL 1972-10613	19720802 <--
NL 156516	B	19780417		
JP 53031609	B4	19780904	JP 1972-77575	19720802 <--
US 3845022	A	19741029	US 1973-418597	19731123 <--
CA 1016297	A2	19770823	CA 1976-250786	19760422 <--

PRIORITY APPLN. INFO.:

US 1971-169075	A3	19710804
CA 1972-148229	A3	19720728

AB Electrophotog. photoconductive compns. are comprised of a finally divided photoconductive pigment which is dispersed in a Br-containing interpolymer consisting of repeating units derived from  $\geq 1$  Br-containing monomer and  $\geq 1$  monomer which does not contain Br. Thus, an interpolymer for use as binder in an electrophotog. photoconductive composition was prepared from a composition containing styrene 135.20, dibutyl fumarate 171, 1:1 mixture of ethylene glycol monomaleate-2-carbobutoxy-3,4,5,6-tetrabromobenzoate and monobutyl maleate 70.40 parts, and sufficient benzoyl peroxide in PhMe.

L9 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1973:406928 CAPLUS

DOCUMENT NUMBER: 79:6928

TITLE: Bromine-containing, ethylenically unsaturated copolymers as binders in electrophotographic coating compositions

INVENTOR(S): Ray-Chaudhuri, Dilip Kumar; Georgoudis, Paul Constantine; Stockmann, Hans Hugo

PATENT ASSIGNEE(S): National Starch and Chemical Corp.

SOURCE: Ger. Offen., 33 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2238112	A1	19730222	DE 1972-2238112	19720802 <--
US 3793293	A	19740219	US 1971-169075	19710804 <--
GB 1402139	A	19750806	GB 1972-34742	19720725 <--
GB 1402515	A	19750813	GB 1974-3138	19720725 <--
GB 1402841	A	19750813	GB 1974-3139	19720725 <--
GB 1402842	A	19750813	GB 1974-52477	19720725 <--
FR 2148318	A1	19730316	FR 1972-29003	19720728 <--
CA 999009	A1	19761026	CA 1972-148229	19720728 <--
NL 7210613	A	19730206	NL 1972-10613	19720802 <--
NL 156516	B	19780417		
JP 53031609	B4	19780904	JP 1972-77575	19720802 <--
US 3845022	A	19741029	US 1973-418597	19731123 <--
CA 1016297	A2	19770823	CA 1976-250786	19760422 <--

PRIORITY APPLN. INFO.:

US 1971-169075	A	19710804
CA 1972-148229	A3	19720728

AB The title copolymers were prepared from .geq.1 selected aliphatic or aromatic bromine-containing monomer, e.g. ethylene glycol monomaleate 2-carbobutoxy-3,4,5,6-tetrabromobenzoate (I) [40099-91-0] with .geq.1 selected, non-Br-containing monomers, e.g., monobutyl maleate (II) [925-21-3]. Thus, a mixture of tetrabromophthalic anhydride 232.0, BuOH 72, and NaOAc 1.07 parts were heated at 90-5.deg. for 2 hr, 2.7 parts tetramethylammonium chloride and ethylene oxide were added, and the total mixture was heated at the same temperature for 1 hr. Maleic anhydride (98 parts) was added to the mixture and the mixture heated for 2 hr and 80.deg. in a 1:1M mixture of I and II. A mixture was prepared containing styrene [100-42-5] 135.20, di-Bu fumarate [105-75-9] 171.00, I-II mixture 7.40, toluene 66.00, and Bz2O2 3.80 parts, the mixture temperature allowed to climb to 85-90.deg., and the mixture heated at this temperature for 1 hr. Toluene (96.00 parts) and 7.50 parts Bz2O2 were added, the mixture heated at 95% for 1 hr 214.6 parts toluene

added, and the mixture cooled to room temperature to give the copolymer binder. The copolymer could then be mixed with photo-conducting ZnO and photo-sensitizer and used in electrophotog.

L9 : ANSWER 6 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1964:9583 CAPLUS

DOCUMENT NUMBER: 60:9583

ORIGINAL REFERENCE NO.: 60:1664c-e

TITLE: The action of bromine under energetic conditions on benzoic anhydride and 4,5-benzophthalic anhydride  
AUTHOR(S): Buu-Hoi, Nguyen P.; Jacquignon, Pierre; Roussel, Odette

CORPORATE SOURCE: C.N.R.S., Gif-sur-Yvette, Fr.

SOURCE: Compt. Rend (1963), 275(5), 1100-2

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB The action of Br in fuming H<sub>2</sub>SO<sub>4</sub> on benzoic (I) and 4,5-benzophthalic (II) anhydrides produces polybrominated anhydrides. Thus, to a solution of 6 g. I in 30 g. fuming H<sub>2</sub>SO<sub>4</sub> (65% SO<sub>3</sub>) was added 42 g. Br and the mixture heated 20 min. at 65°, 3 hrs. at 175°, and finally 30 min. at .apprx.200°. The decolorized solution was cooled and poured onto crushed ice containing a small quantity of NaHSO<sub>3</sub> to give 7-7.5 g. an octabromide (III), m. 228°, C<sub>14</sub>H<sub>2</sub>Br<sub>8</sub>O<sub>3</sub>. The compound gives a pale yellow color with PhNMe<sub>2</sub>, but no isolable  $\pi$ -complex with various electron donors (pyrene, 3-methoxypyrene, 1,2-benzocarbazole). III (7 g.) was esterified by refluxing for 5 hrs. in EtOH with H<sub>2</sub>SO<sub>4</sub> to give 4-5 g. Et 2,3,4,5-tetrabromobenzoate (IV), b<sub>15</sub> 225-50°, m. 63° (MeOH). After refluxing for 8 hrs. in alc. KOH, IV gave the corresponding acid, previously prepared by a different method (Van de Bunt, CA 23, 1890). Analogous bromination of II gave a tetrabromo anhydride (IV), m. 319°. The structure of IV has not been fully determined. However, since it is known that bromination of  $\beta$ -naphthoic acid leads to the 5,8-di-Br compound, it is probable that the two Br atoms in IV are in the 5- and 8-positions.